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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,023	01/09/2006	Yasuhiro Sasaki	19475	4078
23389 7590 11/02/2007 SCULLY SCOTT MURPHY & PRESSER, PC 400 GARDEN CITY PLAZA SUITE 300 GARDEN CITY, NY 11530			EXAMINER	
			BUDD, MARK OSBORNE	
			· ART UNIT	PAPER NUMBER
GARDEN CITT, IVI 11550			2834	
			MAIL DATE	DELIVERY MODE
			11/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/564,023	SASAKI ET AL.			
		Examiner	Art Unit			
		Mark Budd	2834			
:	The MAILING DATE of this communication app					
Period fo	or Reply					
WHIC - Externafter - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a solution of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time iill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on	_•				
·	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-15</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-5,7-10 and 12</u> is/are rejected. Claim(s) <u>6,11 and 13-15</u> is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	on Papers					
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on <u>09 January 2006</u> is/are: Applicant may not request that any objection to the deplacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Example 1.	a)⊠ accepted or b)□ objected lrawing(s) be held in abeyance. See on is required if the drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) △ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary (Paper No(s)/Mail Dat 5) Notice of Informal Pa	te			
Paper	Paper No(s)/Mail Date <u>1-9-06</u> . 6) Other:					

Application/Control Number: 10/564,023

Art Unit: 2834

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 9, 10 and 12 are rejected under 35 USC 103 (a) as being unpatentable over Ogawa in view of Miller. Ogawa, especially figures 1-6 and 8-13 teaches a piezoelectric bender bimore supported a one end and carrying a 'load' on the opposite end. The exterior terminals are both provided on the upper surface. Garwood does not show providing insulating layers on the top and bottom surfaces of the bender condor does Ogawa show instillation between the upper and lower piezoelectricly active areas. However, Miller (see figures 5 and 8) teaches providing an exterior layer as well as an interior layer formed from piezoelectricly inactive material and sintered integrally with the rest of the piezoelectric layers in order to protect from flashover and cracking of the structure. Thus, for at least these reasons it would have been obvious to one of ordinary skill in the art to provide Ogawa with the piezoelectric element architecture taught by Miller.

Claims and 7and 8 are rejected under 35 USC 103 is being unpatentable over Ogawa in view of Miller as applied to claim 1 above and further in view of Maichl. These claims add that the piezoelectric element drives an elastic element. Maichl teaches that piezoelectric elements are often used to drive an elastic body. Determining the ultimate use for the piezoelectric element would be within the skill expected of the routineer depending on application dictates. Also, to use the specific piezoelectric transducer of e.g. Ogawa (a bimorph) as a substitute for the year to morph used by Maichl in order to provide a larger displacement would have been obvious to one of ordinary skill in the art.

Claims 6, 11 and 13-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Further cited of interest or Sakamoto, Sube, Nagatsuka, Yamamoto, Ishikawa and Inoue.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Budd whose telephone number is 571-272-2019. The examiner can normally be reached on Monday-Thursday from 6 a.m. to 4 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg, can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Budd Primary Examiner

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